

Comparisons of Job Characteristics

Focus Occupation: **Conservation Scientists (19-1031)**

Associated Occupation: **Natural Sciences Managers (11-9121)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: **63**

Focus Occupation: **Conservation Scientists (19-1031)**
Associated Occupation: **Natural Sciences Managers (11-9121)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Chemistry	4.8	13.5	7.8	<< Extensive education and/or training may be required
Administration and Management	8.4	12.8	10.8	< Expanded education and/or training may be required
Law and Government	5.9	12.1	11.4	0 Current knowledge level may be sufficient
Biology	3.7	11.8	16.2	>> Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	11.4	10.0	< Expanded education and/or training may be required
Geography	3.9	5.9	14.3	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: **82**

Focus Occupation: **Conservation Scientists (19-1031)**
Associated Occupation: **Natural Sciences Managers (11-9121)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Science	4.5	15.7	9.3	<< Extensive development of skills in this area may be required
Time Management	8.9	13.9	9.0	<< Extensive development of skills in this area may be required
Operations Analysis	5.0	13.6	9.0	<< Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	13.2	8.6	<< Extensive development of skills in this area may be required

Coordination	9.1	12.3	10.7	<	A higher skill level may be required
Management of Financial Resources	3.3	8.9	4.7	<<	Extensive development of skills in this area may be required
Technology Design	2.6	7.6	3.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Natural Sciences Managers (11-9121)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Comprehension	12.5	17.8	14.0	<<	Extensive improvement in abilities may be required
Oral Expression	12.4	16.5	14.7	<	Some improvement in abilities may be required
Written Comprehension	11.0	16.0	13.7	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	15.5	12.6	<	Some improvement in abilities may be required
Speech Clarity	10.2	15.4	12.7	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	14.8	12.2	<	Some improvement in abilities may be required
Written Expression	9.8	14.4	12.1	<	Some improvement in abilities may be required
Speech Recognition	9.9	12.6	12.0	0	Current ability level may be sufficient
Originality	7.6	12.0	10.1	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.6	10.2	<	Some improvement in abilities may be required
Number Facility	6.3	10.0	8.1	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Natural Sciences Managers (11-9121)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Advise clients or customers	19
Analyze operational or management reports or records	62

Analyze scientific research data or investigative findings	27
Assign work to staff or employees	30
Communicate technical information	4
Conduct training for personnel	30
Confer with scientists	54
Develop budgets	56
Develop plans for programs or projects	31
Develop policies, procedures, methods, or standards	21
Explain complex mathematical information	30
Make presentations	13
Oversee execution of organizational or program policies	49
Prepare reports	8
Resolve engineering or science problems	46
Use library or online Internet research techniques	21
Use project management techniques	47
Use public speaking techniques	13
Use scientific research methodology	21
Write research or project grant proposals	33

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 93

Focus Occupation: Conservation Scientists (19-1031)
Associated Occupation: Natural Sciences Managers (11-9121)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Cameras	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Network applications software	1
Sampling equipment	12
Soil measuring equipment	20

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.